QD
1
S923

ARKIV FÖR KEMI

UTGIVET AV

KUNGL. SVENSKA VETENSKAPS-

AKADEMIEN

Band 20

Med 39 avhandlingar

ALMQVIST & WIKSELL

STOCKHOLM

GÖTEBORG • UPPSALA

1963

Häfte 1–2 innehållande Nr 1–15 utkom den 17 jan. 1963
» 3 » Nr 16–23 » » 6 mars 1963
» 4 » Nr 24–30 » » 10 juni 1963
» 5 » Nr 31–36 » » 11 » 1963
» 6 » Nr 37–39 » » 19 aug. 1963

TJUGONDE BANDETS INNEHÅLL

		Sid.
1.	FORSÉN, S., Molecular orbital calculations of some enolised di- and triketones. I. Energies and equilibrium properties	1– 23
2.	FORSÉN, S., Molecular orbital calculations of some enolised di- and triketones. II. Charge distributions and bond orders. Comparison with infrared and proton magnetic resonance data	25– 40
3.	FORSÉN, S., Molecular orbital calculations on enols of α-formyl ketones. A comparison between different models for aldehyde and keto groups in simple MO calculations	41– 49
4.	RAPPE, C., The rearrangement of 3-bromolaevulic acid to 5-bromolaevulic acid	51– 53
5.	FÖLSCH, G., RYHAGE, R. and STENHAGEN, E., Mass-spectrometric demonstration of the absence of N→O acyl shift in N-acetylserine treated with anhydrous formic acid	55– 62
6.	BERGSTRÖM, S., DRESSLER, F., KRABISCH, L., RYHAGE, R. and SJÖVALL, J., The isolation and structure of a smooth muscle stimulating factor in normal sheep and pig lungs. Prostaglandin and related factors 9	63– 66
7.	RUNDQVIST, S., Binary transition metal phosphides. Their structures and relationships with other compounds between transition metals and non-metals with small atomic radii	67–113
8.	RAPPE, C., Some attempts to prepare 2-bromo- and 2-chlorolaevulic acid	115–127
9.	VON EULER, H. und HASSELQUIST, H., Aminosäuren und Peptide in Verbindung mit Nucleosiden und Nucleotiden	129–135
10.	LUNDBLAD, G. and LUNDBLAD, M., Chromatographic analysis of the proteolytic enzymes of the sea urchin egg. I. The chromatographic method	137–146
11.	GELLERSTEDT, N., Electron microscopic studies of hydroxyethyl cellulose (HEC)	147–151
12.	WAHLBERG, H. E., Über einige Alkoxypyrazole	153–156
13.	ENZELL, C. and KROLIKOWSKA, M., The chemistry of the natural order Cupressales. 48. Heartwood constituents of *Cupressus arizonica* Greene	157–162
14.	NYGÅRD, B., Azobenzol–Hydrazobenzol. Ein polarographisches Reversibilitätsproblem	163–183
15.	RYHAGE, R., Fast recording of mass spectra of organic compounds of high molecular weight, using amounts of material in the microgram range	185–191
16.	HELGSTRAND, E. and LAMM, B., Isotope effect of hydrogen in the azo coupling reaction of 1,3,5-trimethoxybenzene with *p*-chlorobenzenediazonium ion	193–203
17.	REBANE, E., 14-Selenahexadecanoic acid and 14-selenapentadecanoic acid	205–208
18.	HÖGFELDT, E., A simple averaging approach to surface heterogeneity	209–214
19.	HÖGFELDT, E., A comparison of some methods of evaluating site distribution density functions for heterogeneous surfaces	215–224
20.	BERGLUND, C. and LAWESSON, S.-O., Studies on peroxy compounds XXIII. The copper chloride catalyzed decomposition of *t*-butyl perbenzoate in the presence of activated compounds	225–244

21. Vannerberg, N.-G., The infrared spectra of dinuclear-cobalt complexes 245–253
22. Lindholm, E. and Wilmenius, P., Ion-molecule reactions in the radiolysis of methanol 255–258
23. Assarsson, L. O., Isotope effect of hydrogen in the protolysis of Grignard compounds by hydroxy compounds 259–288
24. Gronowitz, S. and Gustafson, P., Optically active bithienyls. III. On the synthesis, resolution and configuration of 2,2′-dinitro-4,4′-dicarboxy-3,3′-bithienyl 289–296
25. Gronowitz, S., Rudén, U. and Gestblom, B., On the ring-closure of some α-(thienylthio)-substituted acetic and propionic acids with sulphuric acid 297–304
26. Johansson, G., The crystal structure of a basic aluminum selenate . . . 305–319
27. Johansson, G., On the crystal structure of the basic aluminum sulfate $13Al_2O_3 \cdot 6SO_3 \cdot xH_2O$ 321–342
28. Johansson, G., On the crystal structure of a basic gallium sulfate related to alunite 343–352
29. Fischmeister, I., Infrarotspektren kristalliner langkettiger Methylfettsäuren. I. Nahe der Karboxylgruppe substituierte Säuren 353–367
30. Sundelöf, L.-O., Isothermal diffusion in ternary systems. A discussion of the cross-term diffusion coefficients and their derivatives with respect to concentration at infinite dilution of one solute including a discussion of the flow equations at the critical point of mixing 369–384
31. Fischmeister, I., Infrarotspektren kristalliner langkettiger Methylfettsäuren. II. Nahe dem Kettenende substituierte Säuren 385–397
32. Fischmeister, I., Infrarotspektren der Erythro- und der Threoform der (+)-3,4-Dimethyldokosansäure. Doppelte Karbonylbanden in Fettsäurespektren 399–406
33. Gronowitz, S., Gestblom, B. and Mathiasson, B., Metalation of 3-thiophene aldehyde ethylene acetal. The tautomeric structure of 3-formyl-2-thiophenecarboxylic acid 407–415
34. Ciavatta, L., Potentiometric purity control of salt media for equilibrium studies. With an appendix on the analysis of dilute solutions of strong acids 417–435
35. Berecki-Biedermann, C., On the preparation and analysis of rhodium(III) perchlorate and sulfate solutions 437–446
36. Jellinek, F., Sulfides of the transition metals of groups IV, V and VI . 447–480
37. Hesse, R., The crystal structure of copper(I) diethyldithiocarbamate and its interpretation. An application of chemical topology 481–505
38. Odham, G., The resolution of 2-methylbutanoic acid 507–511
39. Andersson, G. R., A study of the pressure dependence of the partial specific volume of macromolecules in solution by compression measurements in the range 1–8000 atm 513–571